PLAINVILLE, COMM., COMPERENCE RECARDING
SUBJEC FOLLUTION OF THE PLAINVILLE WATER COMPANY
GRAVEL PACKED WELLS

To:

Warren J. Scott, Chief Senitary Engineering Services LeRoy V. Van Kleeck Principal Senitary Engineer

FROM: Principal seni

Mr.W.S.Wise, Director State Water Resources Com. State Office Building Mr. Mired L. Minor, Pres. Plainville Water Co. Plainville, Com. Marlin Roekvall Corp. Plainville, Com.

BUREAU COPTISTE ENGINEERING

Document No. 7

On April 1, 1958 a conference was held at the Marlin-Rockwell Corporation regarding pollution to the gravel packed wells of the Flainville Mater Company from detergents. Mr. John Appleyard, plant manager and Mr. Malcolin Berlind, plant engineer, together with several other technicians, represented the corporation. Officials of the Flainville Water Company were present and a representative from the Henry Souther Engineering Corporation, consultants for the Plainville Water Company. Mr. Clifford G. Carten, with Esbec Tumbling Division was present, representing the supplier of the detergents used by the Marlin-Rockwell Corporation. The corporation had also invited Mr. Max U. Priester, associate director of the consulting division of Bets Imboratories, Inc. Mr. Priester is an authority on industrial waste treatment. Accompanying Mr. Priester was Mr. Raynolds of the Bets Imboratories, Inc. In addition, members of the state water resources commission, the first selectman, Doctor Cook, local health director, and a number of others were present. In all, about twenty people attended this conference.

At Mr. Appleyard's request, the writer outlined the history of the diffisulty and outlined the possible solutions. Mr. John Curry, shief engineer of
the state water resources commission, discussed laboratory experiments in
efforts to precipitate detergents with a view of attempting precipitation of
the existing detergents in the Marlin-Rockwell Corporation lagrons. It appears
that both alum and ferric chloride in dosages of about one to two pounds per
thousand gallons may effectively float the detergents as sludge. The Bets
Laboratories are to make further studies and the water resources commission to
be advised as to whether they concur in a chemical precipitation procedure for
removing detergents from the present lagrons of the Marlin-Rockwell Corporation.
It was the consensus of opinion that if these detergents can be flocculated that
the supermetant liquor or subnatant liquor will be drained to a third temporary
lagron and then discharged to the Quinniples River. The third lagron will be
used to eatch any ells which may escape.

Studies will also be made by the Betz Laboratories as to a possible industrial waste plant. Use of the lagoous may be retained, however, particularly for sludge handling.

Another accomplishment of the emference was an immediate decision to stop the use of all synthetic detergents by the corporation, if at all possible. Mr. Carten has offered their so-called "Substitute No. 4", which contains light seds ash, sodium metasiliente, Tetrasodium pyro-phosphate and trisodium phosphate.

The above fermulation contains no synthetic detergent and It is believed it will do a satisfactory weaking job on the bearings. It will be a substitute for Index So. I compound, which contains 7% Baccanol DB, a synthetic detergent. Mr. Carten #tated that probably the main difficulty will be acceptance of the new product by the man actually using the compound on the bearings. Mr. Apple-yard stated that if the elecning job is satisfactory, the sumlovees, will be required to use the new substitute.

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Plainville, Conn. Conference Regarding Pollution of the Plainville Water Company Gravel Packed Wella

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It was ascertained at this conference that the total industrial wastes at this concern probably is 20,000 to 25,000 g.p.d. This figure was of importance in consideration of other industrial waste treatment procedures.

Mr. Minor of the Flainville Water Company, stated that it is their plan to pump for a short period of time on each of the contaminated wells and to solicet weekly samples for examination by the Henry Souther Engineering Company. In this way, the progress of removal of the detergents can be determined. There was some discussion on the possibility of pumping on the existing driven well younts in the area between the Marlin-Hockwell Company's lagoons and the service wells. The water would be pumped from these wells in an effort to remove the detergents in the ground water. It was not decided whether this would be done.

CONCLUSIONS

At this conference, the following accomplishments were made:

- 1. The company will discontinue the use of synthetic detergents.
- 2. Studies will be immediately undertaken by Bets Laboratories, Inc., the ecupeny's consultants, to see if the detergents in the existing lagoous can be precipitated and the supernature or subnature liquor discharged to the Quinniples River.
- 3. Studies will be made and a report made to the corporation on alternative methods of handling the cile, acids, and washing compounds with or without the use of the present lagrons.

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